

Original Instruction Manual

TS200C

Compact Cast Iron Table Saw

IMPORTANT

For your safety read instructions carefully before assembling or using this product. Save this manual for future reference.



Version 2.1
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Woodworking Machines & Accessories

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Staveley S43 3LS

HEALTH AND SAFETY GUIDELINES

Always follow the instructions provided with the manual. Always wear safety glasses when using woodworking equipment. Always disconnect the power before adjusting any equipment. Failure to observe proper safety procedures and guidelines can result in serious injury.

WARNING: Do not allow familiarity (gained from frequent use of your machine and accessories) to become commonplace. Always remember that a careless fraction of a second is sufficient to inflict severe injury.



Always wear safety glasses when using woodworking equipment.



Always read the instructions provided before using woodworking equipment.

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Consumable Spare Parts Quick Find

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Health & Safety Guidance

READ ALL THE INSTRUCTIONS IN THIS MANUAL CAREFULLY BEFORE ASSEMBLY, INSTALLATION AND USE OF THIS PRODUCT. KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE.

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

SAFE OPERATION

1. Eye Protection

The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Always wear safety glasses or other suitable eye protection. Wear safety glasses at all times. Everyday glasses only have impact resistant lenses. They are not safety glasses which give additional lateral protection. It is also important to wear ear protectors when operating the table saw.

2. Keep work area clear.

Cluttered areas and benches invite accidents and injuries.

3. Consider work area environment.

Do not expose the machine to rain or damp conditions.

- Keep the work area well lit.
- Do not use the machine in the presence of flammable liquids or gases.

4. Guard against electric shock.

Avoid body contact with earthed or grounded surfaces.

5. Keep other persons away (and pets).

Do not let persons, especially children, not involved in the work, touch the machine, or extension cord (if used) and keep visitors away from the work area.

6. Store idle tools.

When not in use, tools should be stored in a dry, locked- up place, out of reach of children.

7. Do not force the machine.

It will do the job better and work more safely if operated at the speed at which it was intended.

8. Use the right tool.

- Do not force small tools to do the job of a heavy-duty tool.
- Do not use tools for purposes other than those for which they were intended.

9. Dress properly.

- Non-slip footwear is recommended.
- Do not wear loose clothing, neckties or jewellery; they can be caught in moving parts.
- Roll up long sleeves above the elbow.
- Wear protective hair covering to contain long hair.

10. Use protective equipment

- Use safety glasses. (See note 1. above)
- Use face or dust shield if cutting operation creates dust.
- Use ear plugs or ear defenders when the machine is in use

11. Connect dust extraction equipment.

(See section 9, page 22)

12. Do not abuse the cord.

Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.

13. Do not overreach.

Keep proper footing and balance at all times.

14. Secure work.

Ensure that your work piece is properly held before starting to cut.

15. Maintain tools with care.

- Follow instructions for lubrication and changing accessories.
- Inspect electric cords periodically and, if damaged, have them repaired by an authorized service facility or qualified electrician.
- Inspect extension cords (if used) periodically and replace if damaged. Always use properly rated extension cord.

16. Disconnect Machine.

When not in use, before servicing, changing blades etc. disconnect the machine from the power supply.

17. Never leave machine running unattended.

Turn power off, do not leave machine until it comes to a complete stop.

18. Remove adjusting keys and wrenches.

ENSURE that all adjusting wrenches and keys are removed before switching the machine 'ON'.

19. Avoid unintentional starting.

Ensure the switch is in the "STOP" position before turning on the power from the main electricity supply. Your Record Table saw already incorporates low voltage protection. This means the machine will not automatically start up after say a power cut, unless you first reset the start switch.

20. Out-door Extension Leads.

Your machine should not be used outdoors.

21. Stay alert.

Watch what you are doing, use common sense and do not use the machine when you are tired.

22. Check for damaged parts.

- Before use of the machine, it should be carefully checked to determine that it will operate properly and perform its intended function.
- Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.
- A guard or other part that is damaged should be properly repaired or replaced by a qualified person unless otherwise indicated in this instruction manual. Have defective switches replaced by a qualified person.
- Do not use the machine if the switch does not turn on and off.

23. Warning!

- The use of any accessory or attachment, other than those recommended in this instruction manual, or recommended by our Company may present a risk of personal injury.

24. Have your machine repaired by a qualified person.

- This electric machine complies with the relevant safety rules. Only qualified persons using original spare parts should carry out repairs. Failure to do this may result in considerable danger to the user.

25. This machine is designed for cutting wood.

- Do not use for cutting any material other than wood.

Maintenance and Servicing

This machine requires very little maintenance. This handbook gives clear instructions on installation, set up and operation.

Read these instructions carefully. Remember always to switch off and unplug from the main electricity supply before carrying out any setting up or maintenance operations.

Should you need advice on the repair or maintenance of this product, our Customer Service Department can be contacted on 01246 561 520 and will be happy to assist you.

Additional Safety Instructions for Table Saws

SAFETY IS A COMBINATION OF OPERATOR COMMON SENSE AND ALERTNESS AT ALL TIMES WHEN THE TABLE SAW IS BEING USED.

WARNING: FOR YOUR OWN SAFETY, DO NOT ATTEMPT TO OPERATE YOUR TABLE SAW UNTIL IT IS COMPLETELY ASSEMBLED AND INSTALLED ACCORDING TO THE INSTRUCTIONS.

SAFE OPERATION

- 1.** The table saw should be bolted to the floor where possible.
- 2.** If you are not thoroughly familiar with the operation of table saws, obtain advice from your supervisor, instructor, or other qualified person or contact your retailer for information on training courses. Do not use this machine until adequate training has been undertaken.
- 3.** Never turn the machine 'ON' before clearing the table of all objects (tools, scrap pieces etc.)
- 4.** Ensure that:
 - (i) the voltage of the machine corresponds to the mains voltage.
 - (ii) To use an earthed power source (wall socket).
 - (iii) The cord and plug are in good condition, i.e. not frayed or damaged.
 - (iv) No saw teeth are missing and the blade is not cracked or split.
Otherwise replace blade.
 - (v) The blade is aligned.
- 5.** Never start the machine with the saw blade pressed against the workpiece.
- 6.** Never apply sideways pressure on the blade.
- 7.** Care must be taken when cutting wood with knots, nails or cracks in it and / or dirt on it.
- 8.** Never leave the machine running unattended.
- 9.** Do not use saw blades which are damaged or deformed.
- 10.** Ensure the selection of the saw blade is suitable for the material to be cut.
- 11.** If the electrics are damaged, parts must only be replaced by a qualified electrician.
- 12.** Never use a long extension cable.

- 13.** Always use a push stick and keep hands clear of the blade.
- 14.** Never remove the crown guard or riving knife. These are there to protect the user.
- 15.** **WARNING LABELS** – It is important that labels bearing Health & Safety Warnings are not removed or painted over. New labels are available from Customer Services.
- 16.** **MECHANICAL SAFETY** – The security of all clamps and work holding devices should be checked before switching on.
- 17.** **WOOD DUST** – The fine particles of dust produced in cutting operations are a potential health risk. Some imported hardwoods do give off highly irritant dust which causes a burning sensation. We strongly recommend the use of a dust collector and dust mask/visor. Our Customer Services Department will also be happy to advise you on the correct unit for your needs.
- 18.** This machine falls under the scope of the 'Health & Safety at Work etc. Act 1974', and the 'Provision & Use of Work Equipment Regulations 1998'. We recommend that you study and follow these regulations. For further help on any of the above matters please contact our Customer Services Department at :-
Tel: 01246 561 520 Fax: 01246 561 536

WARNING: Do not allow familiarity (gained from frequent use of your machine) to cause complacency. Always remember that a careless fraction of a second is sufficient to inflict severe injury.

Record Power Guarantee

1. INTRODUCTION

1.1 We supply machinery through a network of dealers and authorised distributors and you should be aware that your contract of sale is with the retailer from whom you purchased this product.

1.2 If you are not satisfied with this product you should in the first instance approach the retailer from whom you purchased it.

1.3 Customers have statutory rights to protect them and information on this can be found at the Citizens Advice Bureau or on such web-sites as that operated by the DTI (<http://www.dti.gov.uk>)

1.4 Returning your guarantee card will speed up the claims procedure and can be very helpful as a proof of purchase should the initial receipt be mislaid or damaged. We recommend that this is returned as close to your original purchase date as possible.

1.5 Correct installation, set-up, adjustment and routine maintenance of the machine are the responsibility of the end-user and problems arising from incorrect set-up, adjustment or maintenance are not covered by the terms of this guarantee. However support is available in the first instance from the retailer who supplied you and free technical support is available from Record Power on 01246 561 520 during office hours and from an extensive knowledge base on our website www.recordpower.co.uk. We also recommend that those users who have not had suitable training in the safe use of machinery should seek such training locally before using or attempting to set up and adjust any machinery (please contact your retailer for recommendations in your local area).

2. GUARANTEE

2.1 In addition to the above Record Power guarantees that for a period of 5 years from the date of purchase the components of this product will be free from defects caused by faulty construction or manufacture.

2.2 During this period Record Power will repair or replace free of charge any parts which are proved to be faulty in accordance with paragraph 2.1 above provided that:

2.2.1 You follow the claims procedure set out below;

2.2.2 We are given a reasonable opportunity after receiving notice of the claim to examine the product.

2.2.3 If asked to do so by us, you return the product to Record Power's premises or other approved premises such as those of the supplying dealer, for the examination to take place.

2.2.4 The fault in question is not caused by continuous industrial use, accidental damage, fair wear and tear, wilful damage, negligence on your part, incorrect electrical connection, unapproved modification, abnormal working conditions, failure to follow our instructions, misuse, or alteration or repair of the product without our approval.

2.2.5 This product has been purchased by you and not used for hire purposes;

2.2.6 This Guarantee extends to the cost of carriage incurred by you returning the product to Record Power as long as it is demonstrated that the defect falls within the terms of this Guarantee and you follow the claims procedure as outlined below;

3. CLAIMS PROCEDURE

3.1 In the first instance please contact the retailer who supplied the product to you. In our experience many initial problems with machines that are thought to be due to faulty parts are actually solved by correct setting up or adjustment of the machines. A good dealer should be able to resolve the majority of these issues much more quickly than processing a claim under the guarantee.

3.2 If the dealer who supplied the product to you has been unable to satisfy your query, any claim made under this Guarantee should be made directly to Record Power at the address set out at the foot of this Guarantee. The claim itself should be made in a letter setting out the date and place of purchase, and giving a brief explanation of the problem which has led to the claim. This letter should then be sent with proof of the purchase date (preferably a receipt) to Record Power. If you include a phone number or email address this will help to speed up your claim.

3.3 PLEASE NOTE that it is essential that the letter of claim reaches the

address below on the last day of this Guarantee at the latest. Late claims will not be considered.

3.4 We will contact you once we have received your initial written claim. If it is necessary to return the item, in most cases but subject always to clause 2.2.5, we will arrange for collection or will provide freepost information to enable return depending on the weight and size of the product concerned. If the product is to be returned to us, we will agree with you in advance a Returns Number, to speed tracking of the claim and ensure the most appropriate method of return to you is used.

4. NOTICE

This Guarantee applies to all goods purchased from an authorised retailer of Record Power within the United Kingdom of Great Britain and Northern Ireland. This Guarantee does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This Guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer. Additional written copies of this Guarantee can be obtained by writing to the address below. Please include a stamped and self addressed envelope for each copy of the Guarantee requested.

Record Power Ltd.
Unit B, Adelphi Way
Ireland Industrial Estate
Staveley, Chesterfield
S43 3LS

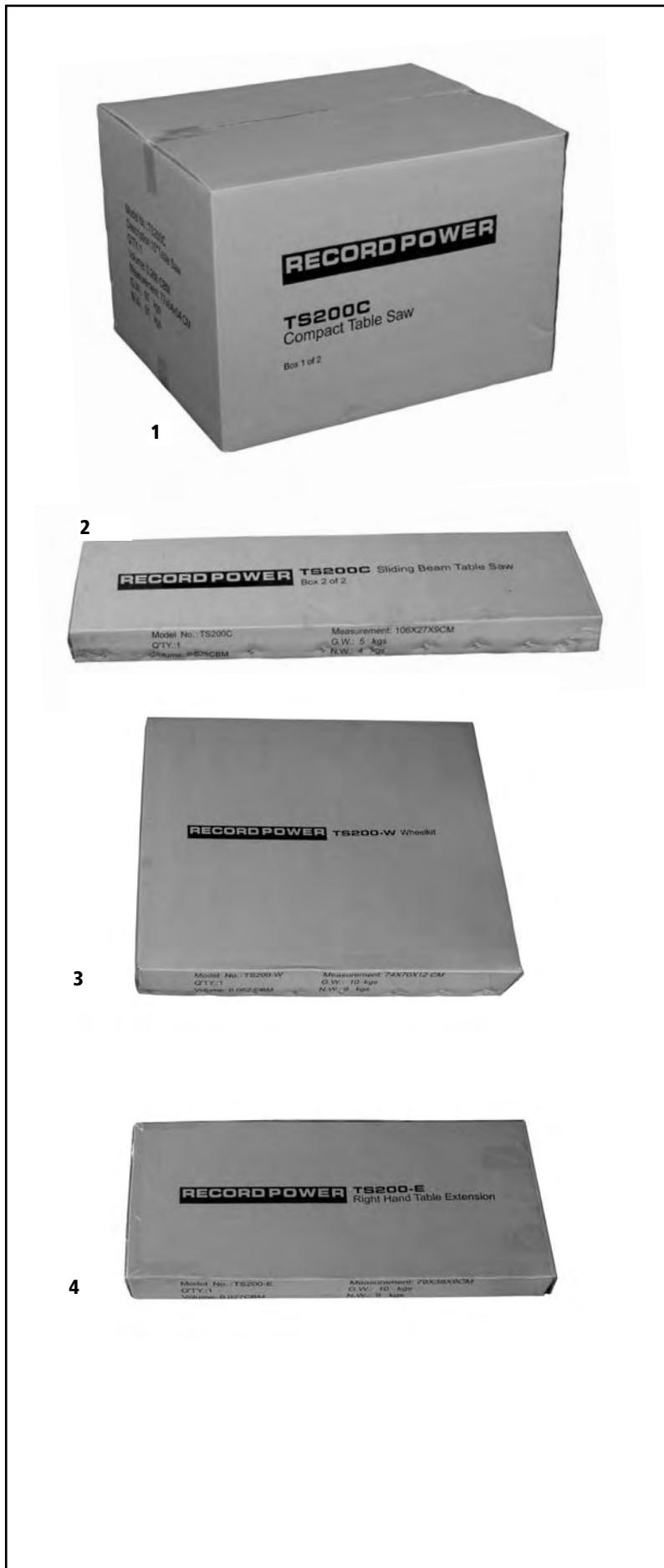
1. Identifying Shipping Boxes

BEFORE ASSEMBLY

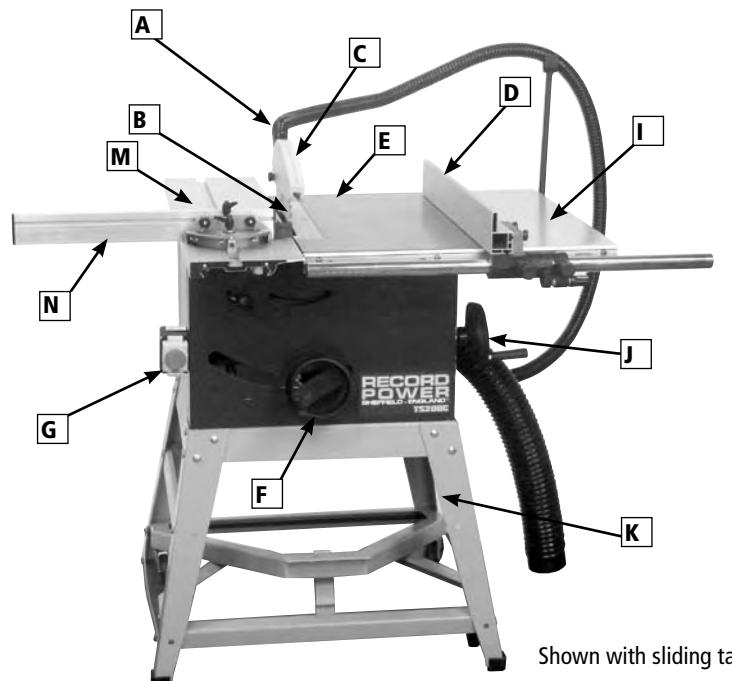
It is advisable that before unpacking to have plenty of paper towels or cloths available to clean off the rust preservative.

Contents of the shipment:

1. TS200C Table Saw
2. Sliding Table
3. Wheel kit (optional accessory)
4. Right hand extension table (optional accessory)



2. Getting To Know Your Table Saw



Shown with sliding table and wheel kit

A	Extraction Hose	G	Switch Unit
B	Blade	I	Extension Table
C	Crown Guard	J	Blade Tilt
D	Rip Fence	K	Cabinet Base
E	Main Table	M	Sliding Table
F	Blade Raise & fall	N	Cross Cut Fence

3. Machine Specification

TS200C SPECIFICATION

Blade size: 250mm

Blade bore: 30mm

Blade speed: 4000rpm

Max width (blade to fence) : 600mm

Table Height : 890mm

Max depth of cut using 250mm blade: 80mm @ 90° / 56mm @ 45°

Extraction ports: 30mm upper, 100mm lower

Motor power (output): 2hp

Weight: 110kg

Dimensions not including the sliding carriage: 900mm (height) x 625mm (width) x 675mm (length)

Dimensions of sliding beam: 1050mm (length) x 215mm (width)

Sliding carriage stroke / max sheet capacity: 620mm

Recommended length of workshop space, full stroke at sheet capacity: 1620mm (approx.)

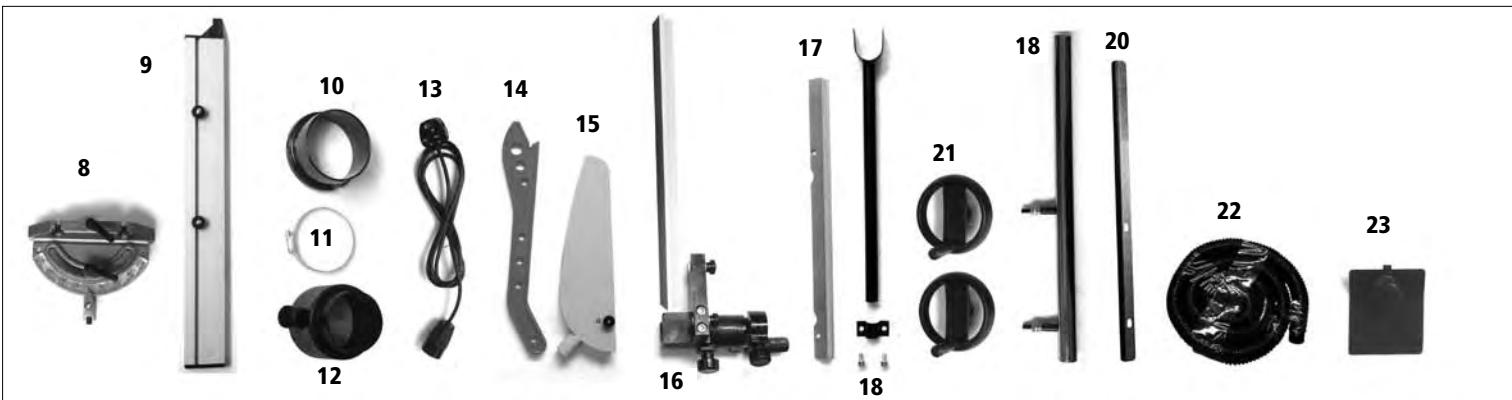
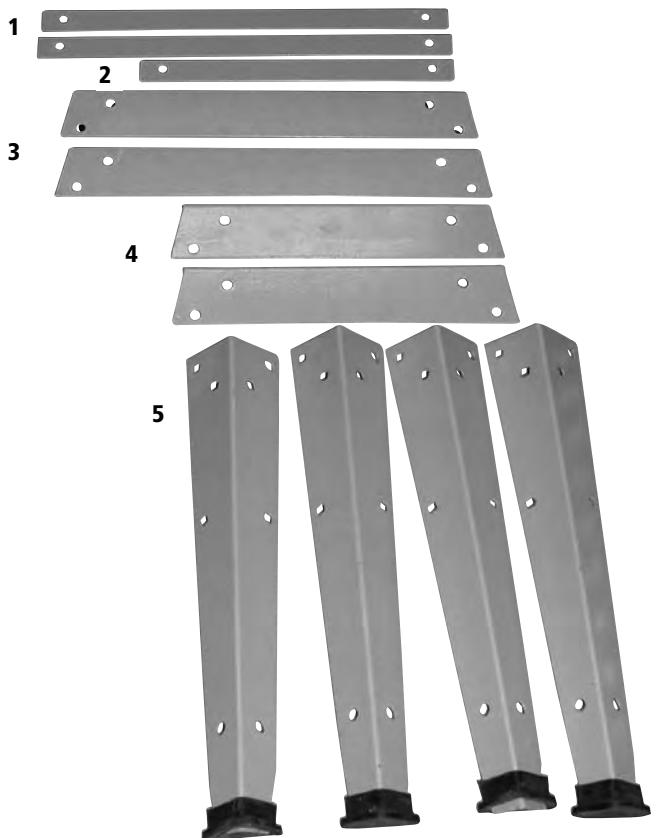
4. Saw Unit Assembly

CAUTION

Many of the items are very heavy. We recommend that assistance is sought before trying to lift the larger components.

4.1 Identification of saw unit components

1. 2 x Long mid brace supports
2. 2 x Short mid brace support
3. 2 x Long top brace supports
4. 2 x Short top brace supports
5. 4 x Legs
6. 1 x Saw unit
7. 1 x Sliding table
8. 1 x Mitre fence seat
9. 1 x Mitre fence
10. 1x Connector
11. 1 x Jubilee clip
12. 1 x Extraction port
13. 1 x Mains cord
14. 1 x Push stick
15. 1 x Crown guard
16. 1 x Aluminum fence & fence carrier
17. 1 x Rip fence scale & extrusion
18. 1 x Extraction hose support w/mounting parts
19. 1 x Front fence bar
20. 1 x Rear rail
21. 2 x Handwheel
22. 1 x Extraction hose
23. 1x Workpiece block
24. 1x Loose bag 1
25. 1x Loose bag 2



4. Saw Unit Assembly - cont.

CAUTION

Many of the items are very heavy.
We recommend that assistance is sought before trying to lift the larger components.

Note: When assembling this table saw,
Do not fully tighten the nuts and bolts until the assembly is complete.

4.2 Stand Assembly

1. Locate the first leg and secure it to one of the long top brace supports using the nuts, bolts and washers supplied **Fig.4.1** and **Fig.4.1B**.
2. In the same way, attach the second leg to the brace support **Fig.4.2**.

3. Locate the short top brace supports and fix the to the legs as shown **Fig.4.3**.

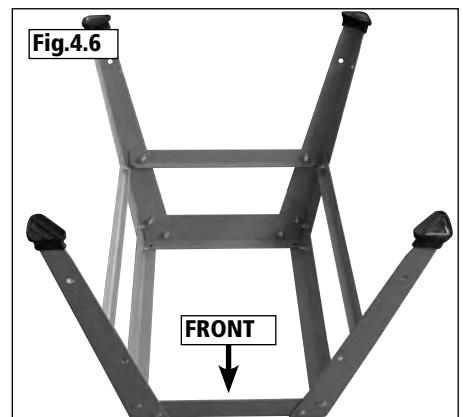
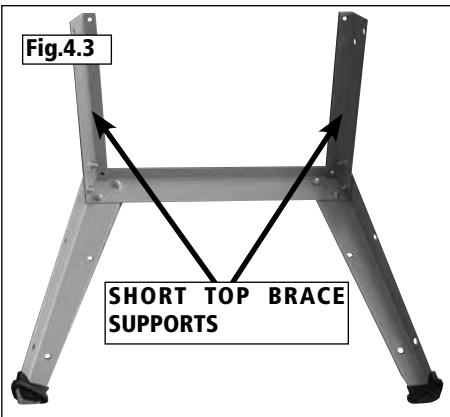
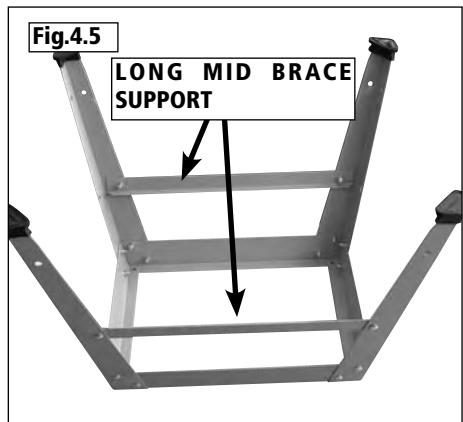
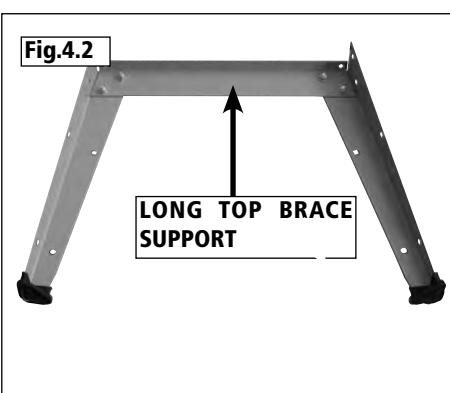
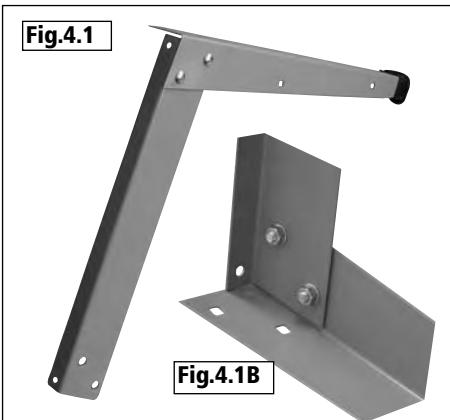
4. Continue in this way until all of the legs and top brace supports have been fitted **Fig.4.4**.

5. Locating holes a third of the way down each leg are for securing the mid brace supports. Fix the long mid brace supports to the frame using the nuts, bolts and washers **Fig.4.5**.

6. Finally, fit the short mid brace support to one of the shorter sides **Fig.4.6**.

Note

The side without the short mid brace support fitted will be referred to as the front of the stand. This leaves the front area free for wheel kit operation.



4. Saw Unit Assembly - cont.

4.3 Fitting the optional wheel kit

1. On the underside of the operating frame, find the two raised areas on either side. Mount the two back wheels and secure in place using the nuts and bolts provided **Fig.4.7A**.

2. With the operating frame in hand, locate the release pedal and fix it to the operating frame **Fig.4.7B**.

3. Take the two front wheels and mount and secure them to the operating frame pedal **Fig.4.7C**. Now slide an axle through one of the front legs and hook a brace support bar on it. Place a washer on and slide a pin throughout the axle end **Fig.4.7D**.

4. Pass the axle through the operating frame pedal and through the opposing leg **Fig.4.7E**. Once the axle is through the opposing leg hook the remaining brace support bar on the axle and secure with a washer and pin as previous **Fig.4.7F**.

5. Now pass the remaining axle through the rear of the stand and hook the brace support bar with washer and pin as previous. **Fig.4.7G**.

6. The operating frame can now be fitted to the axle and secured to the opposing rear leg with the other brace support bar, washer and pin. Ensure when this operating frame is fitted that it sits below the operating frame pedal **Fig.4.7H**.

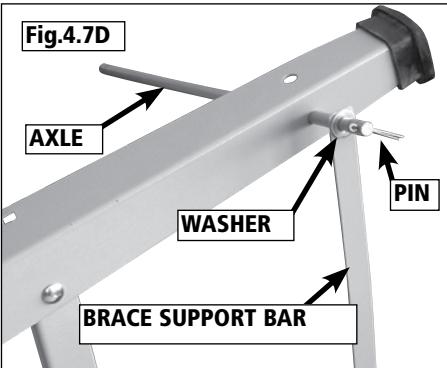
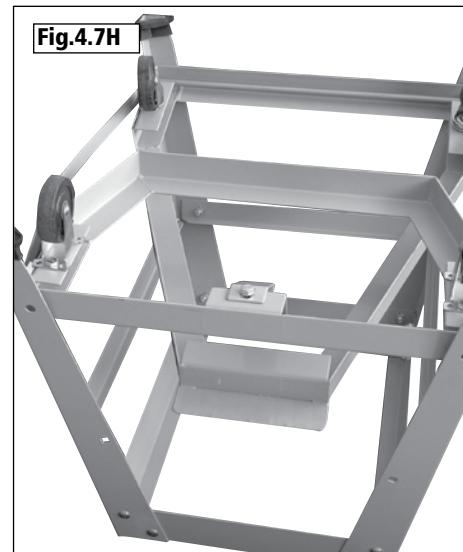
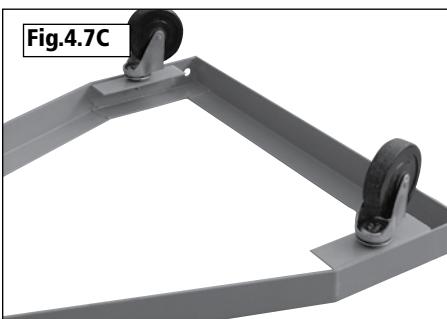
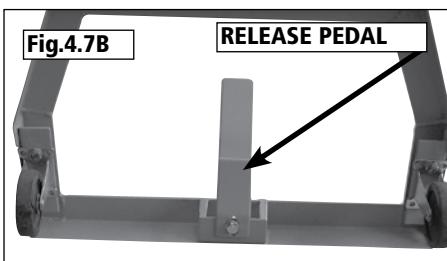
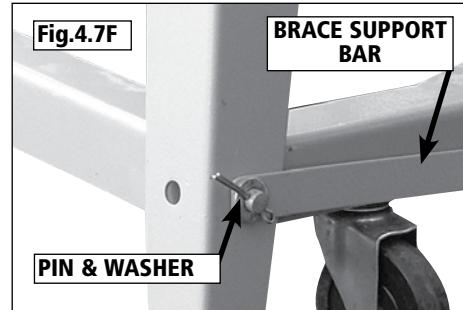
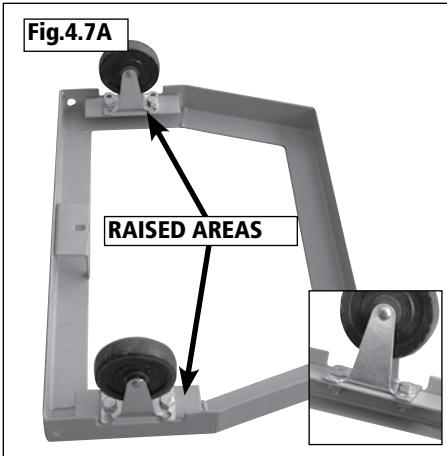
7. Once the frame is upright, the whole assembly should fall into place. However it will not operate correctly until the actual table saw is fitted. **Fig.4.7I**.

4.4 Fitting the saw to the base

CAUTION

This saw unit is very heavy. It is advisable to seek assistance before attempting to lift it onto the base.

Lift the saw onto the assembled open stand and secure in place with the four hex bolts from underneath the open stand.



4. Saw Unit Assembly - cont.

4.5 Fitting the handwheel

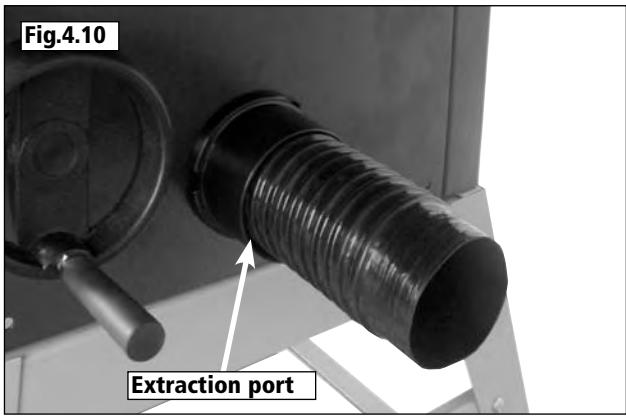
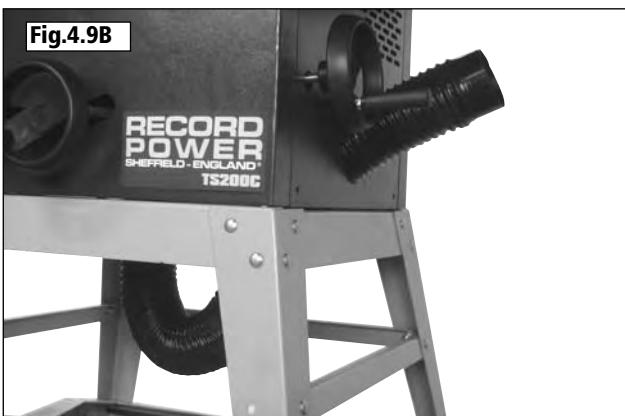
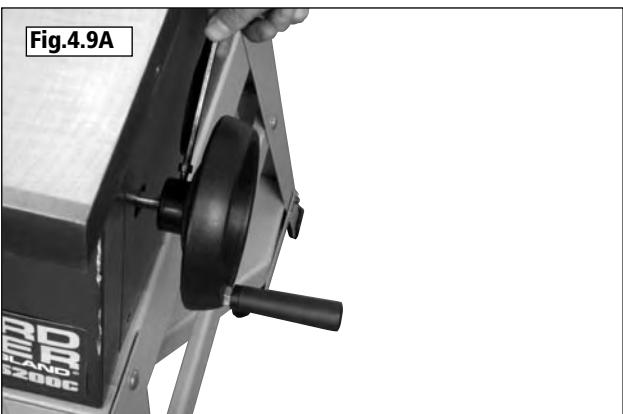
Attached the handwheel for blade tilt and rise & fall with Hex. wrench. Fig.4.9A

4.6 Fitting the extraction hose

1. Unfasten the dust extraction hose from underneath the main saw unit and thread through the extraction hole in the side on the machine **Fig.4.9B**.

2. Fit the extraction port over the end of the hose and clip into place **Fig.4.10**.

3. Secure the extraction connector to the end of the hose using the jubilee clip **Fig.4.11**.

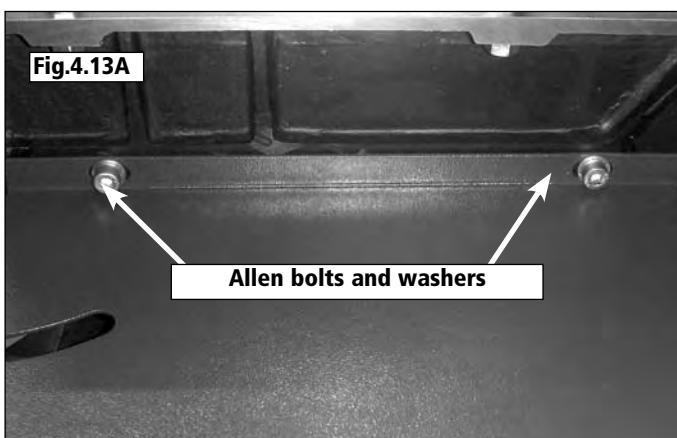
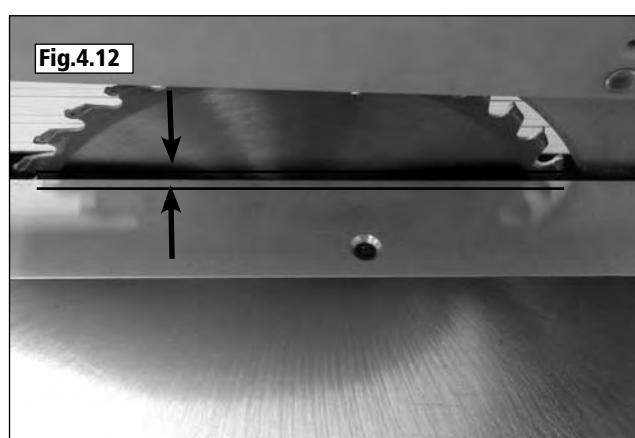
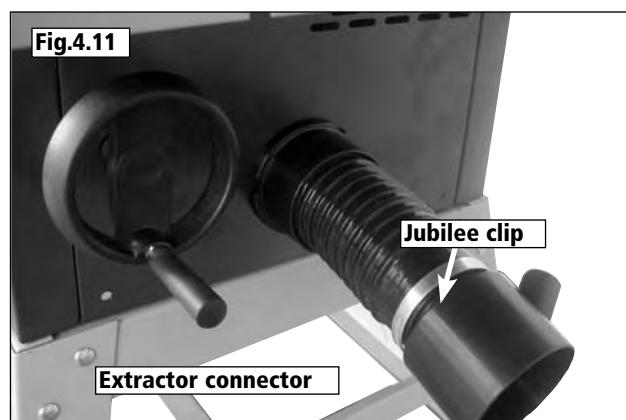


4.7 Fitting the sliding table

1. Before fitting the sliding table onto the table saw. Check if **the saw blade is square to the table**.

2. Wind the blade up through the table slot . Check if **the blade is parallel with the table slot and make sure that the gap shown is minimum 3mm**. **Fig.4.12**

3. If the table is out of parallel with the blade, loosen the four Allen bolts to move the table for correction. **Fig.4.13**.



4. Saw Unit Assembly - cont.

4.8 Adjusting the sliding table

The Sliding table is pre-adjusted in the factory. If it is out of parallel or not sliding smoothly, you can make adjustments according to the instructions below.

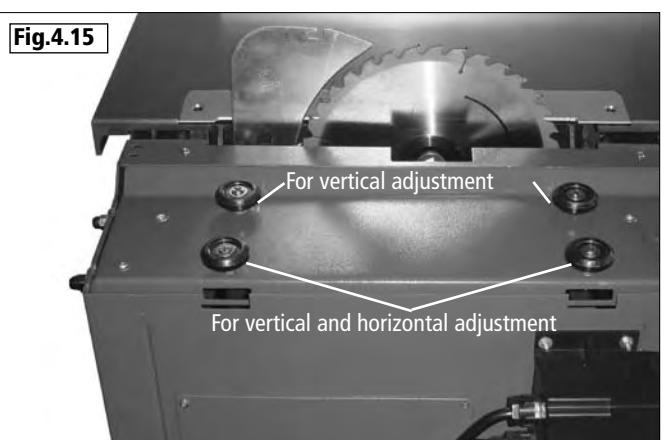
1. Checking the Height

Put the straight gauge on the sliding table and cast table to check if the sliding table is the same height as the main table (Fig 4.13). If it is not, you can adjust the four guide wheels to correct. Two of them can only adjust vertically. The other two are eccentric wheels and can adjust both vertically and horizontally (Fig 4.15).

2. To adjust the height of the two inside wheels. Adjust the height of the guide wheels to the correct position with a screwdriver and a wrench(Fig. 4.16).



3. To adjust the height of the outside wheels, loosen the nut at the end of wheel shaft with a screwdriver and a wrench through the adjusting window. Then adjust the self-lock nut to achieve the correct height with a wrench.(Fig. 4.17)



4. When the tables are at the correct height, check the sliding table to see if it moves smoothly. If not, loosen the bottom lock nut through the window (Fig. 4.17) and using a screwdriver rotate the eccentric wheels to correct. (Fig. 4.18)



4. Saw Unit Assembly - cont.

4.8 Fitting the optional right table extension

If you are fitting the optional table extension please proceed as below.

1. Take the 4 hex head bolts and washers, wind them into the location holes on right side of the main table leaving a gap of approximately 10mm between washer and table **Fig.4.21**.

2. Hook the table extension onto the bolts that have just been attached to the main table **Fig.4.22A** and **Fig.4.22B**. Tighten the mounting bolts to secure the table, but leave enough slack so the table can be adjusted.

3. Taking a suitable straight edge, check the level of the extension table to the main table **Fig.4.23**.

To adjust the table; first lift the table extension so it sits slightly proud of the main table and tighten the hex head bolts the table is hooked on to **Fig.4.22A**.

4. To flatten the table, take a mallet and a flat wooden block and tap down on the extension table **Fig.4.25A** until level with the main table **Fig.4.25B**. When tapping the block strike as close to the seam between the tables as possible.

TIP

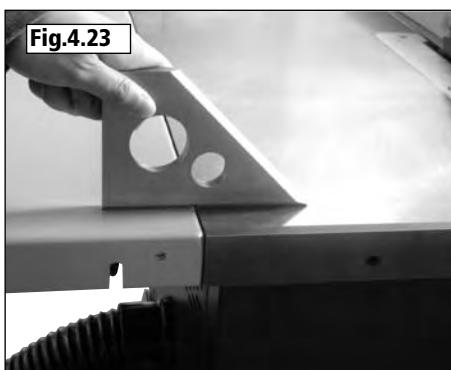
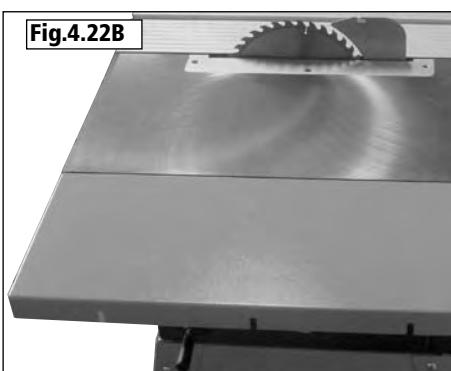
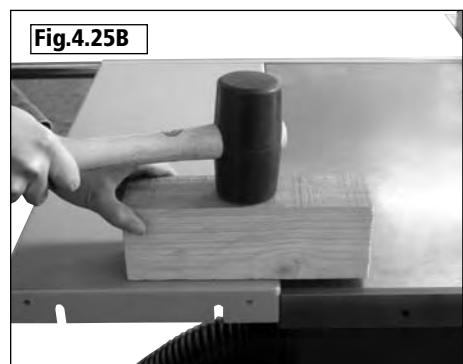
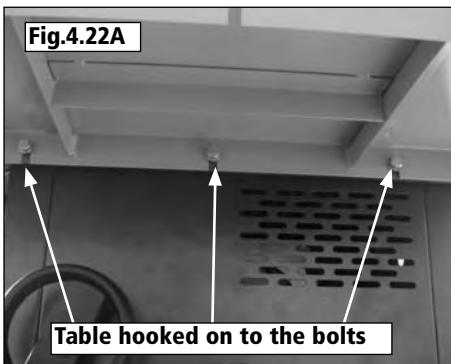
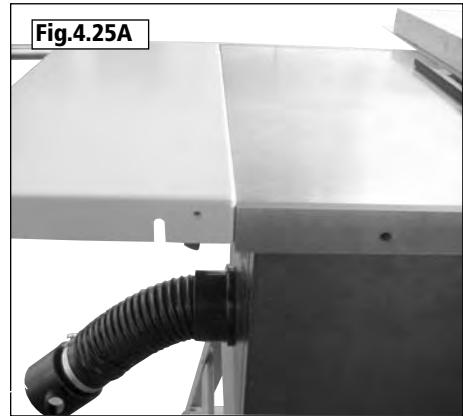
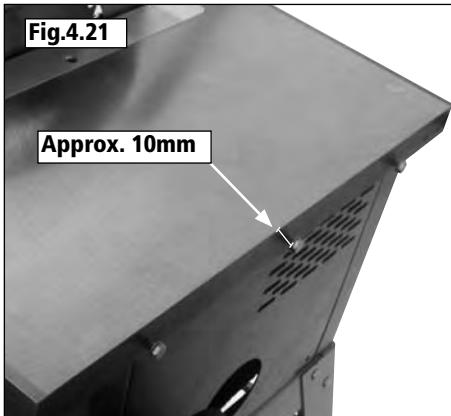
The success of the table levelling procedure largely depends on the adjustment of the mounting bolts. The smaller the movement required, the tighter the bolts should be. However, the whole procedure really does depend on feel. If the table isn't moving enough when tapped, slacken the bolts slightly. If it is moving too much tighten them.

TIP

Level one end at a time, when one end of the table is level tighten that bolt to lock this in position before setting the other end.

If the table has moved too low raise back up above the main table and restart the procedure.

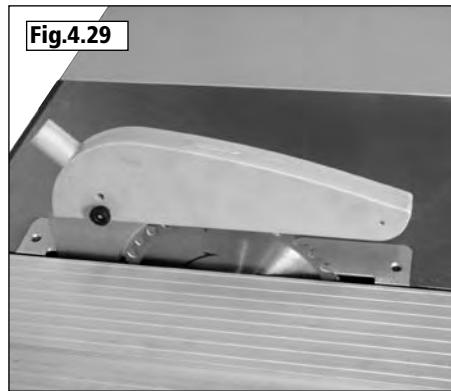
5. When you are satisfied that the tables are level perform one last check along the length of the tables with the straight edge **Fig.4.23** and fully tighten the mounting bolts.



4. Saw Unit Assembly - cont.

4.9 Fitting the crown guard

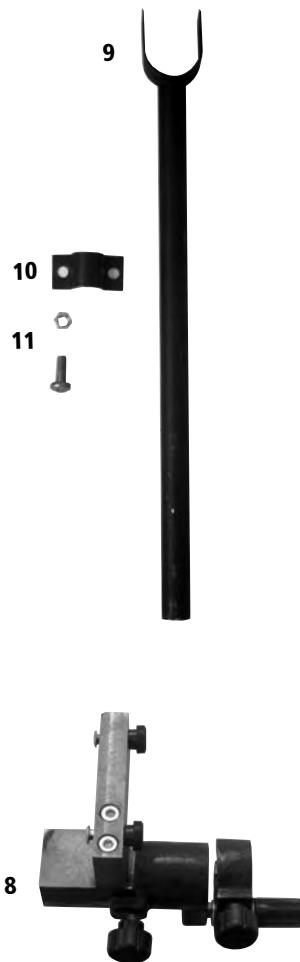
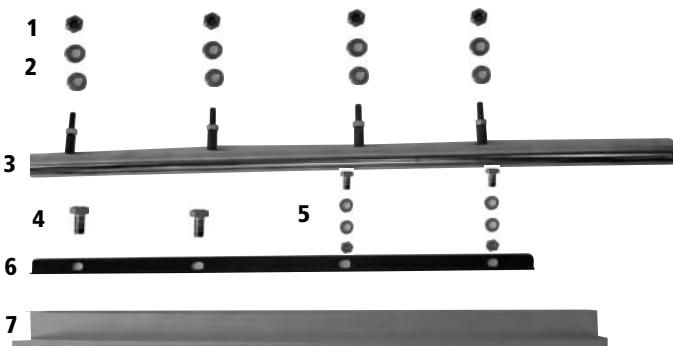
Hook the crown guard into the keyway on top of the riving knife **Fig.4.28** and tighten into position **Fig.4.29**.



5. Rip Fence Assembly

5.1 Identification of rip fence components

1. 4 x Hex. nuts
2. 8 x Washers
3. 1 x Front fence bar
4. 2 x Hex. socket screws
5. 2 x Hex. bolts, washers(4) & hex. nuts (each)
6. 1 x Rear rail
7. 1 x Aluminum fence
8. 1 x Fence carrier
9. 1 x Extraction hose support
10. 1 x 'U' Piece
11. 2 x Pan head screw, hex. nuts (each)

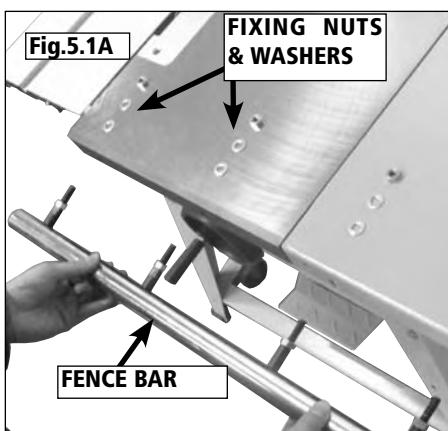


5.2 Fixing the fence bar

Locate fence bar onto the table Fig.5.1A and fix with the two fence fixing bar nuts and washers (four fence fixing bar nuts and washers for optional table extension bar). With those nuts and washers in place on the other side of the table Fig.5.1B Secure the fixing Fig.5.2A but do not fully tighten yet as they may need to be adjusted later in the setup process.

5.3 Fixing the fence scale

Locate fence scale onto the table Fig. 5.2B and fix with two pan head screws (four pan head screws for optional table extension fence scale).



5. Rip Fence Assembly - cont.

5.3 Fitting the fence carrier

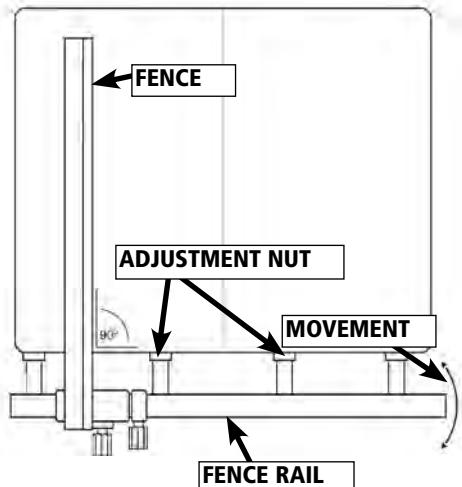
Fasten the fence holding fixtures through the fence carrier casting **Fig.5.3**. Locate the fence carrier on to the fence rail **Fig. 5.4**

5.4 Fitting the rip fence

Now simply slide the rip fence on to the fence carrier and tighten the holding fixtures. Screw in the lock knob to secure the position of the fence on the rail **Fig 5.6**. The fence can be used in the upright position as shown or the fence can be attached to the carrier using the other "T" slot giving another position.

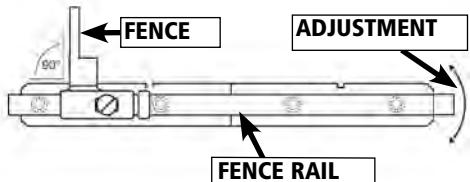
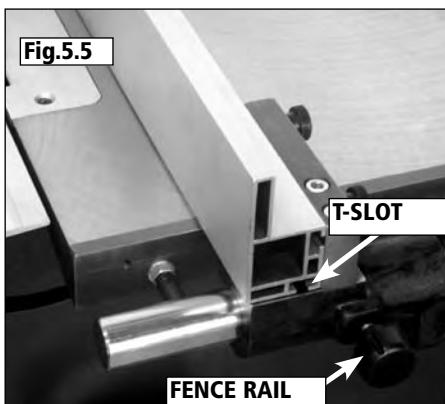
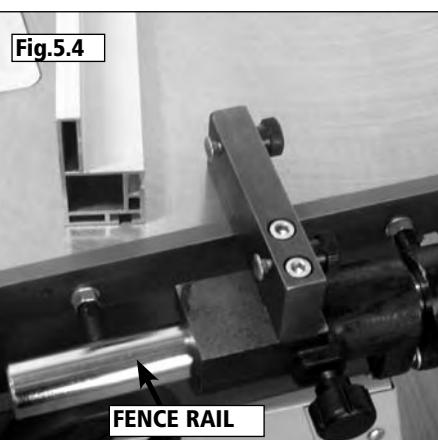
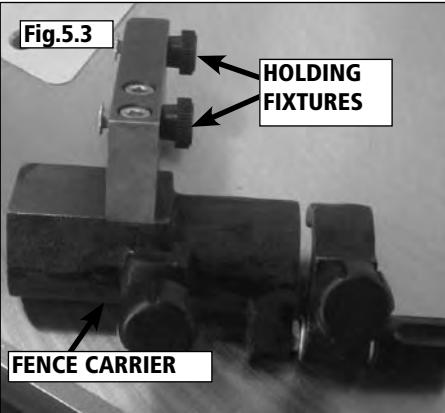
5.5 Fence alignment 1

Align the fence assembly in or out until parallel with the side of the blade by turning the adjustment nuts and the fence bolts accordingly. If the fixing nuts have been tightened, these will need slackening off before this adjustment can be made.



5.6 Fence alignment 2

Check that the fence is 90 degrees to the table using a suitable square. If no adjustment is needed fully tighten the fence bar nuts. If adjustment is required this is achieved by raising or lowering either side of the fence rail until the fence itself is 90 degree to the table. Once set at 90 degree fully tighten the fence bar nuts.



5.7 Fitting the rear fence rail-

Locate rear fence rail onto the table **Fig. 5.6**. and fix with two hex. socket screws for the main table and two hex. bolt, washers and nuts for the table extension.



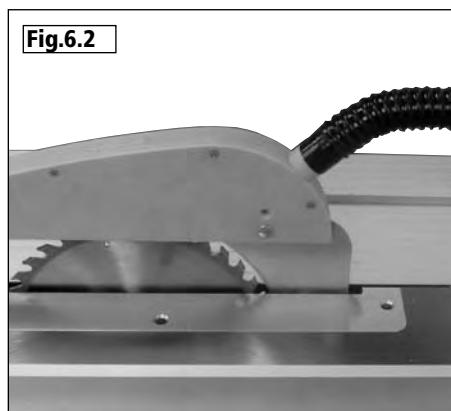
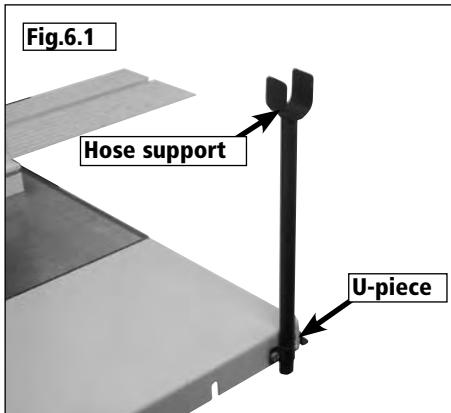
6. Final Assembly

Fitting crown guard extraction hose

1. Fit the hose support in the U-piece that has been fitted in the rear main table or optional table extension. **Fig.6.1**.

2. Now attach one end of the hose to the crown guard **Fig.6.2**

3. Hook the hose over the hose support and feed underneath the table to connect with the main extraction outlet **Fig.6.3**



7. Connection Of The Electricity Supply

Once the machine has been correctly assembled and set up the electricity supply can be connected.

Connect the two pin plug socket on the end of the flex to the switch

Fig.7.1.

The machine can only be connected to a single phase supply. Before connecting the electrical supply ensure that it is the correct voltage, phase and frequency, and that it has sufficient capacity for the machine. The relevant information can be found on the rating plate located on the rear of the machine.

Machines supplied for use in the UK are fitted with a BS1363 plug fitted with a 13 amp fuse. Ensure that you use the appropriate plug for use in other countries. If the plug fitted to the machine is changed for any reason, the wires in the mains lead are coloured in accordance with the following code:

Green and yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals on your plug, proceed as follows:

The wire coloured green and yellow must be connected to the terminal marked 'E' or by the earth symbol ~ or coloured green; or green and yellow.

The wire coloured blue must be connected to the terminal marked 'N' coloured black.

The wire coloured brown must be connected to the terminal marked 'L' or coloured red.

IT IS IMPORTANT THAT THE MACHINE IS EFFECTIVELY EARTHED.

If in doubt about the connection of the electrical supply consult a qualified electrician.

RCD (Residual Current Device)

For your additional safety we always recommend the use of an RCD (sometimes called Residual Current Circuit Breaker or Earth Leakage Circuit Breaker).

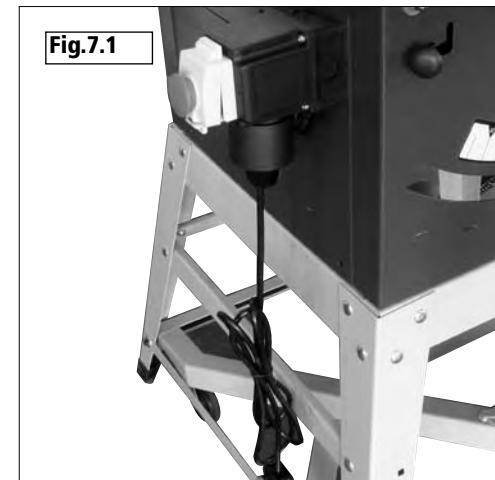


Fig.7.1

8. Operation & Sawing Practice

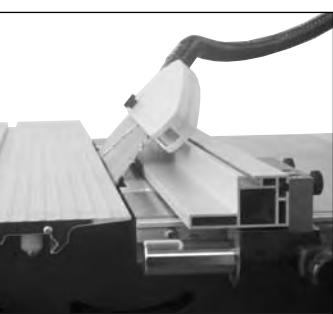
Basic circular saw principles

- The blade rotates on a spindle, and breaks through the timber, cutting on a continuous stroke **Fig.8.1**.
- Slowly feed the workpiece towards the blade **Fig.8.1**, let the blade do the cutting it is not necessary to force the material. When feeding towards the blade hold the workpiece firmly and use the table to provide support. Always use a push stick, keeping your hand well away from the blade.
- For best results the blade must be sharp and in good condition. A damaged or worn blade should always be replaced.
- Select the right blade for the job, depending on the type of material and the cut to be made see table 2 (page 31).

Fig.8.1



TABLE 1: Basic applications

RIPPING When the timber is cut with the grain, use the rip fence for this application 	CROSS CUTTING When the timber is cut across the grain, use either mitre fence or sliding carriage for this application 	PANEL SIZING Dimensioning man made sheet material. Use either the rip fence or sliding carriage for this application  	BEVELLED EDGE When a bevelled (angled) edge is required to the workpiece tilt the blade and pass the timber though. If the rip fence is being used with the blade is tilted the auxiliary fence should be used in the low position to prevent it fouling on the blade when tilted. 
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8. Operation & Sawing Practice - cont.

Blade selection

Before undertaking any application on a table saw is important to consider blade selection. There are many blade types available and it is important to select the right blade for the job. The TS200C is supplied with a good multi-purpose blade, but for specialist applications a blade with a different tooth pattern may be required.

A table saw can be fitted with two different styles of blade: An alternative bevel blade **Fig.8.2** or a triple chip tooth blade **Fig.8.3**. See table 2 for applications

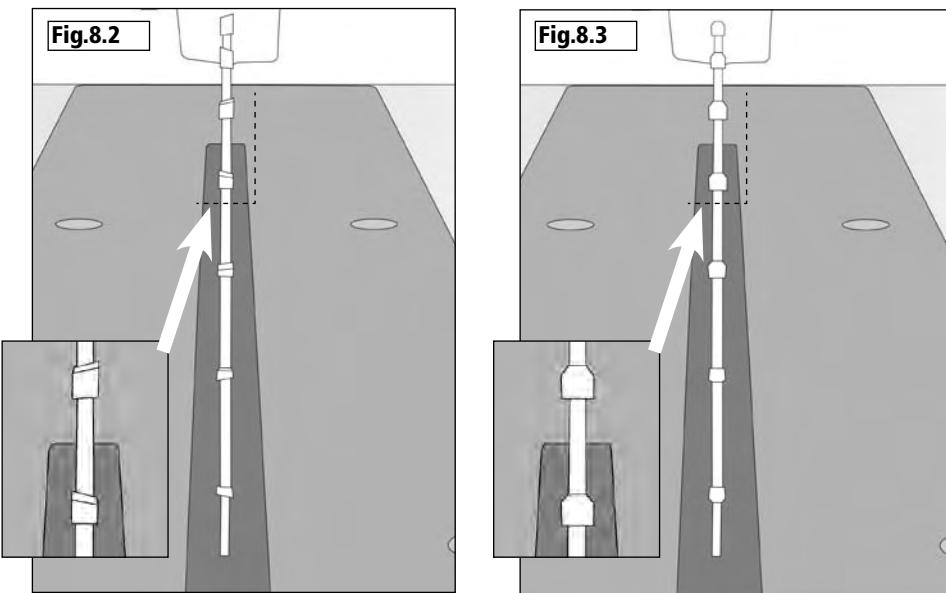


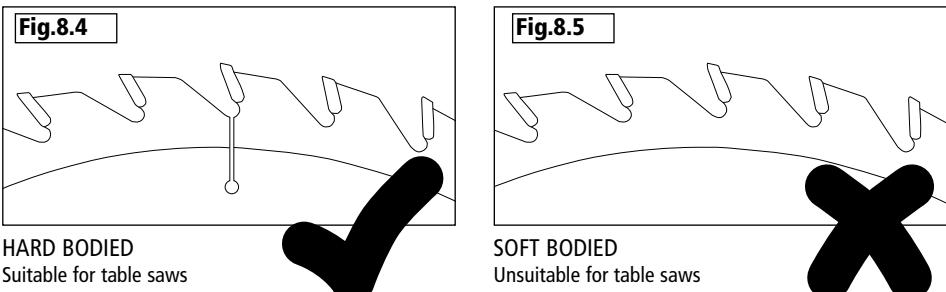
TABLE 2: Blade selection

BLADE TYPE	APPLICATION
24 TOOTH ALTERNATE BEVEL POSITIVE HOOK	Ideal for deep ripping softwoods
30 TOOTH ALTERNATE BEVEL POSITIVE HOOK	Ideal for deep ripping hardwoods
36 TOOTH ALTERNATE BEVEL POSITIVE HOOK	General purpose, suitable for ripping and cross cutting both soft and hardwoods.
40 TOOTH ALTERNATE BEVEL POSITIVE HOOK	Suitable for cross cutting both soft and hardwoods.
40 TOOTH ANTI KICKBACK ALTERNATE BEVEL SEMI-POSITIVE HOOK	Suitable for cross cutting both soft and hardwoods, provides protection from kickback.
80 TOOTH ALTERNATE BEVEL POSITIVE HOOK	Suitable for cross and cutting gives a fine finish on man-made sheet material and laminates
80 TOOTH TRIPLE CHIP POSITIVE HOOK	Suitable for cross and cutting gives a fine finish on man-made sheet material and laminates. Triple chip teeth reduce breakout on the material.

When choosing a blade for a table saw always ensure that it is a hard bodied blade, soft bodied blades are only suitable for power tools. The easiest way to tell the difference between hard and soft bodied blades is that hard bodied blades have movement slots cut into the gullets of the blade **Fig.8.4**, whereas soft bodied blades are solid **Fig.8.5**.

Blade maintenance

It is essential that whichever blade is selected that it is in good condition. Any build up of timber resin near the teeth of the blade will cause the workpiece to stall or stick. These deposits should be removed with white spirit after cleaning it is also advisable to coat the blade with silicone spray. Do not use any product which contains oil on the blade as this will attract dirt. Never try to clean a moving blade. The saw should be stopped, the blade removed and the resin removed with a proper scraper.



8. Operation & Sawing Practice - cont.

Workpiece Support

Good workpiece support is essential on a table saw. Additional supports should always be used if the workpiece overhangs the table. Roller stands are ideal for this purpose and should be used at both infeed and outfeed ends of the machine.

A rip fence, cross cut fence or mitre fence should be used to support the workpiece during the cutting action **Fig 8.6A, B & C**.

During angled or shallow work the auxiliary fence should be re-fitted into the low position to aid the use of a push stick and to stop the blade fouling on the fence **Fig 8.7A & B**.



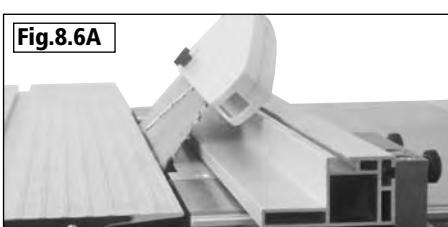
Use Of A Push Stick

A push stick should always be used when making any cut less than 300mm in length or when feeding the last 300mm of a longer cut. the leading hand should never be closer than is necessary to the front of the saw and hands should never be in line with the saw blade.

A push-stick should always be used to remove the cut piece from between the saw blade and fence.

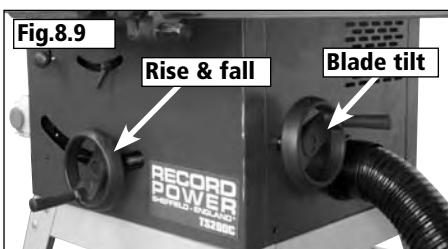
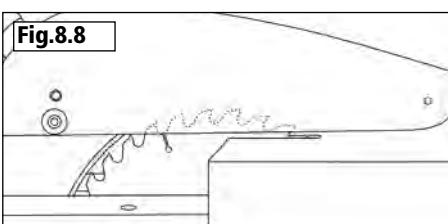
Setting The Saw Guard

The saw guard should be adjusted as close to the workpiece as possible **Fig 8.8**.



Setting The Rise & Fall

The rise and fall must be adjusted so the saw guard is as close to the workpiece as possible. However the teeth should project through the top of the workpiece at all times. **Fig 8.8**. The rise and fall is operated using the large handwheel on the front of the machine **Fig 8.9**.



Setting The blade tilt

To tilt the blade in order to achieve a bevelled edge unlock the lock knob and turn the small handwheel until blade is positioned as required **Fig 8.9**.

9. Operation & Sawing Practice - cont.

Kickback

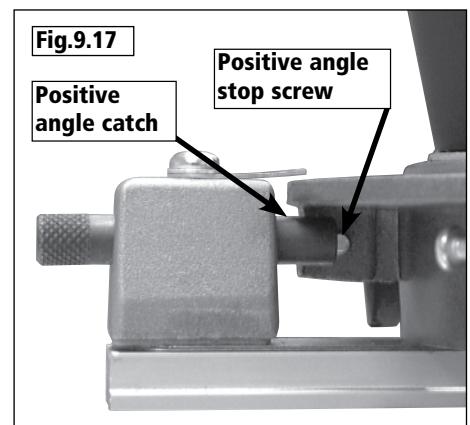
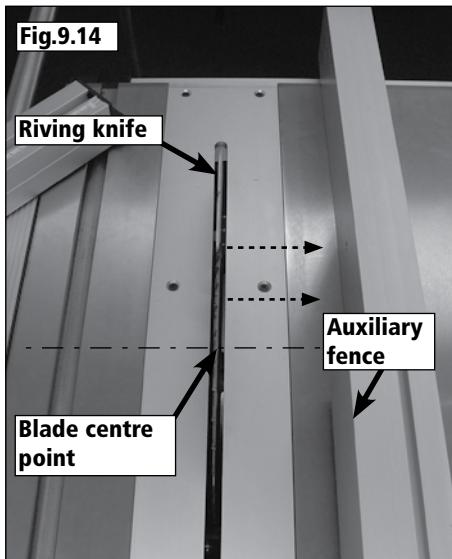
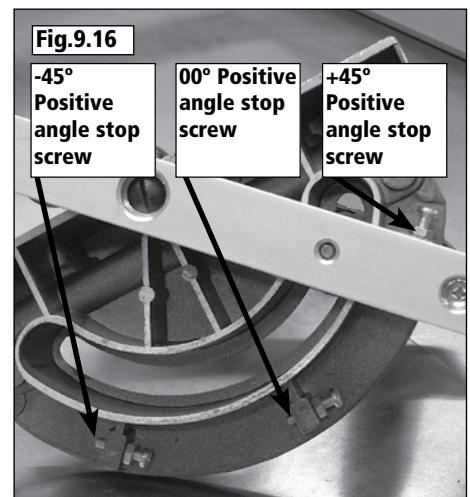
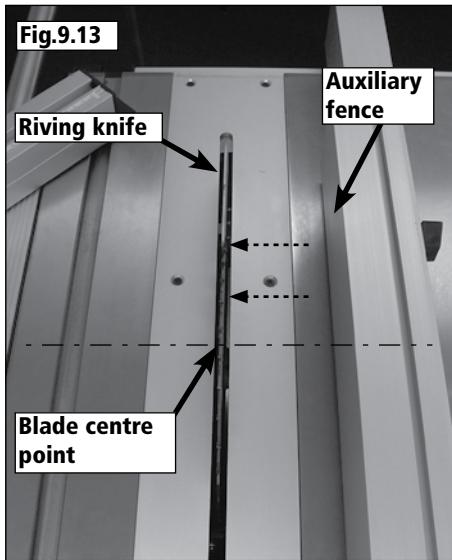
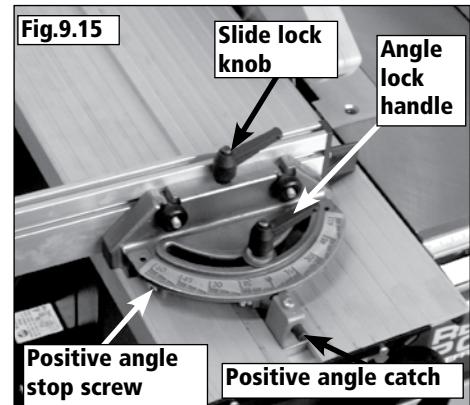
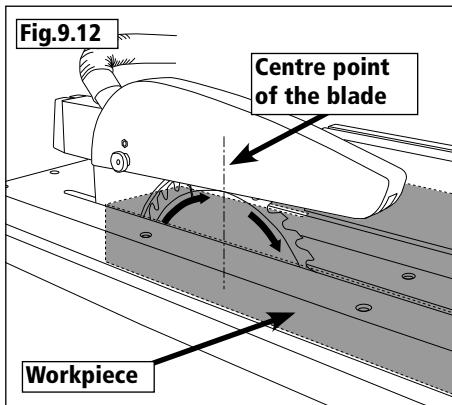
Kickback can occur as the material passes through the saw blade. When the timber is past the centre point on the blade the teeth are moving upwards and towards the user **Fig.9.12**. If the timber closes onto these upward moving teeth the timber will kickback.

The way to overcome kickback is to prevent the timber from closing up onto the blade. To prevent this from happening the fence must be set correctly, if the auxiliary fence is set too far along it can force the timber into the blade and cause kickback **Fig.9.13**. By setting the auxiliary fence in front of the blade centre **Fig.9.14** the timber has space to move into as the cut is made. Kickback is now far less likely to occur as the timber isn't being forced into the upward moving blade.

Pull saw

The TS200C features a pull saw function which is ideal for cross cutting small workpieces, accurate repetitive cuts can easily and safely be achieved.

The first aspect which should be understood is the mitre fence hold down clamp. **Fig.9.15 - Fig.9.17**.



10. Dust Extraction

10.1 The importance of dust extraction

Before the machine is started, ensure that adequate dust extraction provisions have been installed. Dust extraction is extremely important not only for health and safety but also for the correct upkeep of the machine. Saw dust can cause the machine not to operate properly or even fail completely. It is paramount that the extraction port is kept free of waste so mounds of sawdust do not build up around the lower band wheel and blade guides. It is advisable before starting the machine to inspect the internals of the machine and ensure there isn't excessive dust build up. By keeping the machine free of large amounts of waste the performance will be enhanced. Even with adequate extraction there will be partial build up of dust inside the machine, this should be cleaned out as part of the regular maintenance schedule.

If a large amounts of MDF or toxic woods are to be cut we recommend that there is a good ventilation system in place and that a P2 particle mask is worn as minimum protection.

10.2 Record Power Extractors

Record Power offer a range of high quality dust extractors, starting at the single motor 45 litre RSDE1 right up to the 200 litre twin motor DX5000. We offer both drum and bag type extractors and all models provide high filtration down 0.5 micron providing protection from harmful fine dusts such as MDF.

RSDE1 High Filtration Dust Extractor

Drum type extractor, 45 litre capacity, single 1kw motor, suitable for intermittent use i.e must be switched off for 20 minutes per hour.

RSDE2 High Filtration Dust Extractor

Drum type extractor, 50 litre capacity, single 1kw motor, suitable for intermittent use i.e must be switched off for 20 minutes per hour.

RSDE3 High Filtration Dust Extractor

Bag type extractor, 80 litre capacity, single 1kw motor, suitable for intermittent use i.e must be switched off for 20 minutes per hour.

DX4000 High Filtration Dust Extractor

Drum type extractor, 80 litre capacity, Twin 1kw motor, suitable for heavy usage i.e if one motor is switched off for 20 minutes then the other can be used thus enabling continuous usage. Or both motors can be used simultaneously giving maximum suction but in this mode the extractor must be switched off for 20 minutes every hour.

DX5000 High Filtration Dust Extractor

Bag type extractor, 200 litre capacity, Twin 1kw motor, suitable for heavy usage i.e if one motor is switched off for 20 minutes then the other can be used thus enabling continuous usage. Or both motors can be used simultaneously giving maximum suction but in this mode the extractor must be switched off for 20 minutes every hour.

	RSDE1	RSDE2	RSDE3	DX4000	DX5000	CX2000	CX2600
Bandsaws Circular saws Sanders Intermittent usage	✓ Recommended	✓ Recommended	✓ Recommended	✓ Recommended	✓ Recommended		
Bandsaws Circular saws Sanders Heavy usage				✓ Recommended	✓ Recommended		
Planer Thicknessers Spindle Moulders Universals Intermittent usage			✓ Can be used	✓ Can be used	✓ Recommended	✓ Recommended	✓ Recommended
Planer Thicknessers Spindle Moulders Universals Heavy usage				✓ Can be used	✓ Recommended	✓ Recommended	✓ Recommended
Dust Extraction System Intermittent usage				✓ Can be used	✓ Recommended		

11. Maintenance

Changing the blade

1. To change the blade; first remove the crown guard by slackening off the locking screw and unhooking from the riving knife **Fig.11.1**.

2. Loosen the 3 screws on the table insert **Fig.11.3** and remove the insert.

3. Remove the sliding table stop and remove the sliding table **Fig.11.2A/11.2B** to give access to the extraction panel. Loosen the holding screw on the extraction panel and pull the panel away from the blade to create a space between them **Fig.11.5**.

4. Place the tommy bar in the location hole behind the blade **Fig.11.7**.

5. Using a spanner, turn the nut clockwise to loosen it. At this point the tommy bar should have turned with the blade and be tight up against the spindle housing creating an anchor to turn against **Fig.11.4**.

6. Remove the nut, washer and bush from the blade spindle **Fig.11.6**.

NOTE

Take care not to drop the nut down into the unit.

7. It is now possible to remove the blade from the spindle **Fig.11.7**.

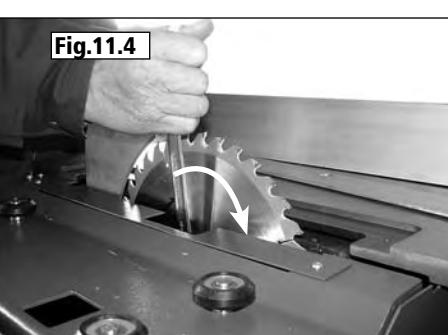
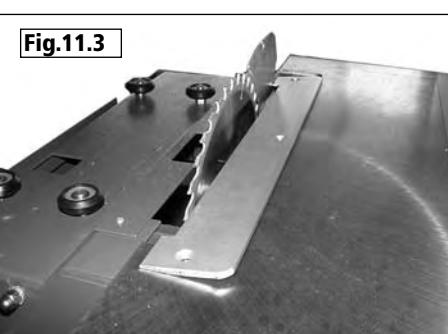
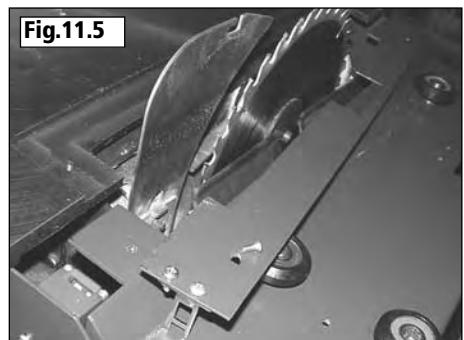
The blade can now be replaced.

8. Feed the new blade on to the spindle ensuring that it is seated firmly on the hub.

9. Replace the bush, washer and nut and using a spanner, turn the nut anti-clockwise to tighten it. At this point the tommy bar should have turned with the blade and be tight up against the spindle housing to create an anchor to turn against.

10. Replace the table insert and retighten the screws to hold it in place.

11. Re-fit the sliding table and secure by fitting the sliding table stop.



11. Maintenance - cont.

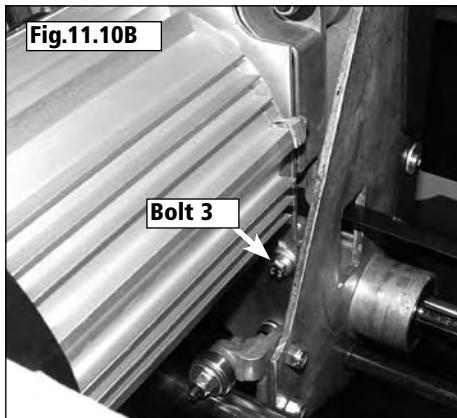
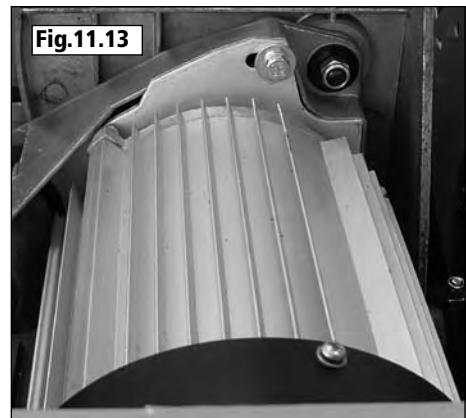
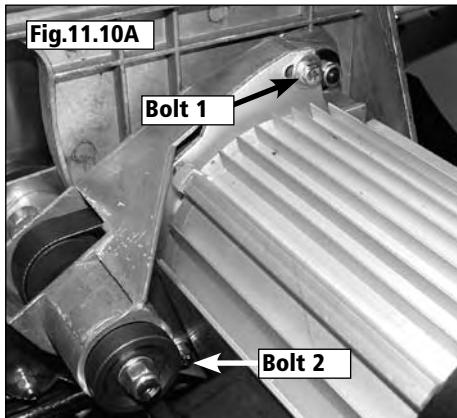
NOTE

To adjust the belt tension of the motor it may be necessary to remove the tables to access the inside of the saw unit.

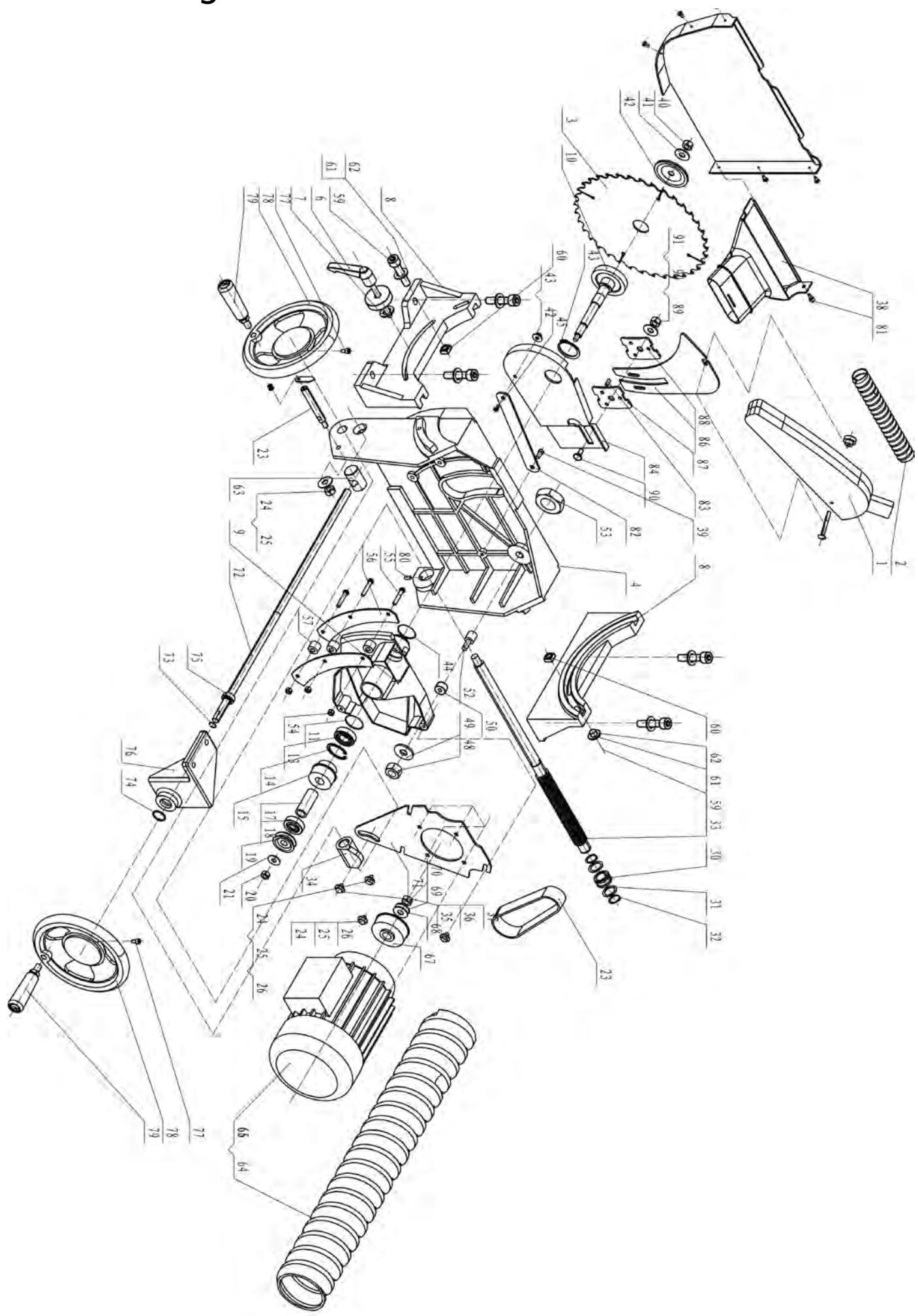
Tensioning the belt

1. When tensioning the belt the three motor mounting bolts must be slackened **Fig.11.10A** and **Fig.11.10B**.

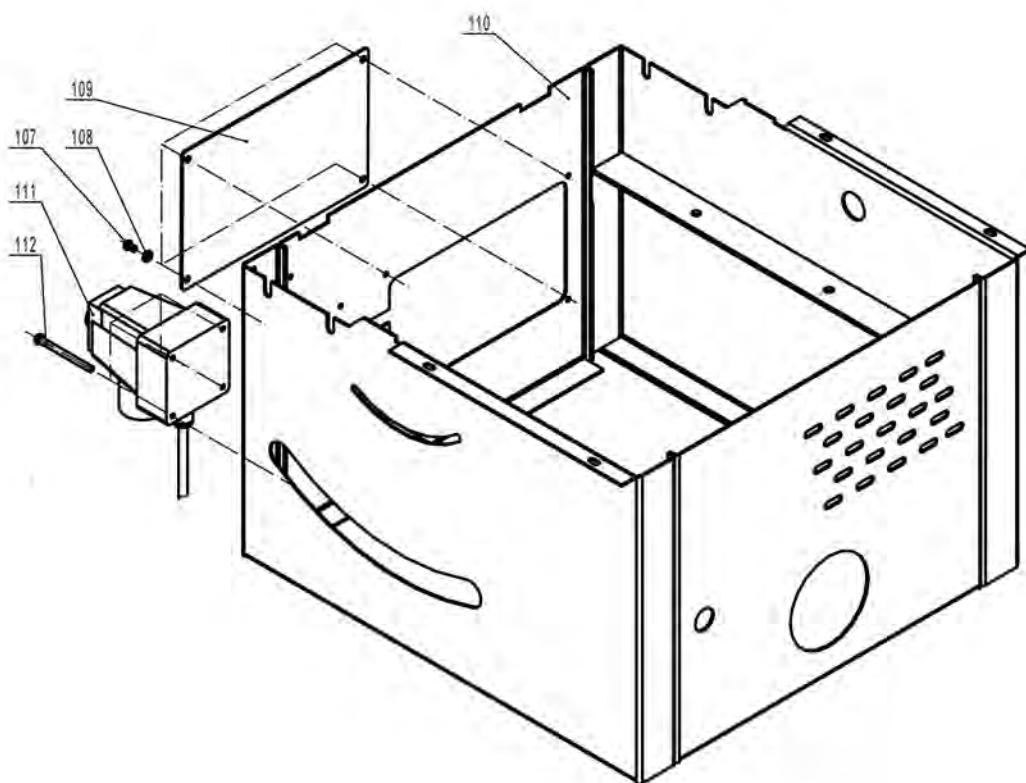
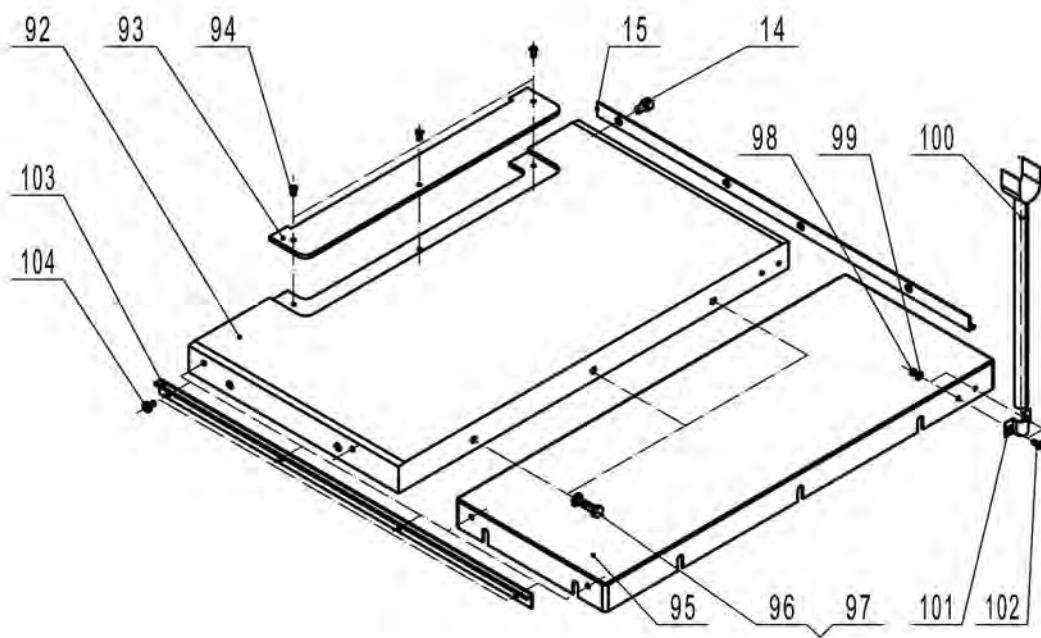
2. Slacken the three bolts and pivot the motor to the right to increase tension **Fig.11.13**. When desired tension is achieved, retighten the three bolts to secure the setting.



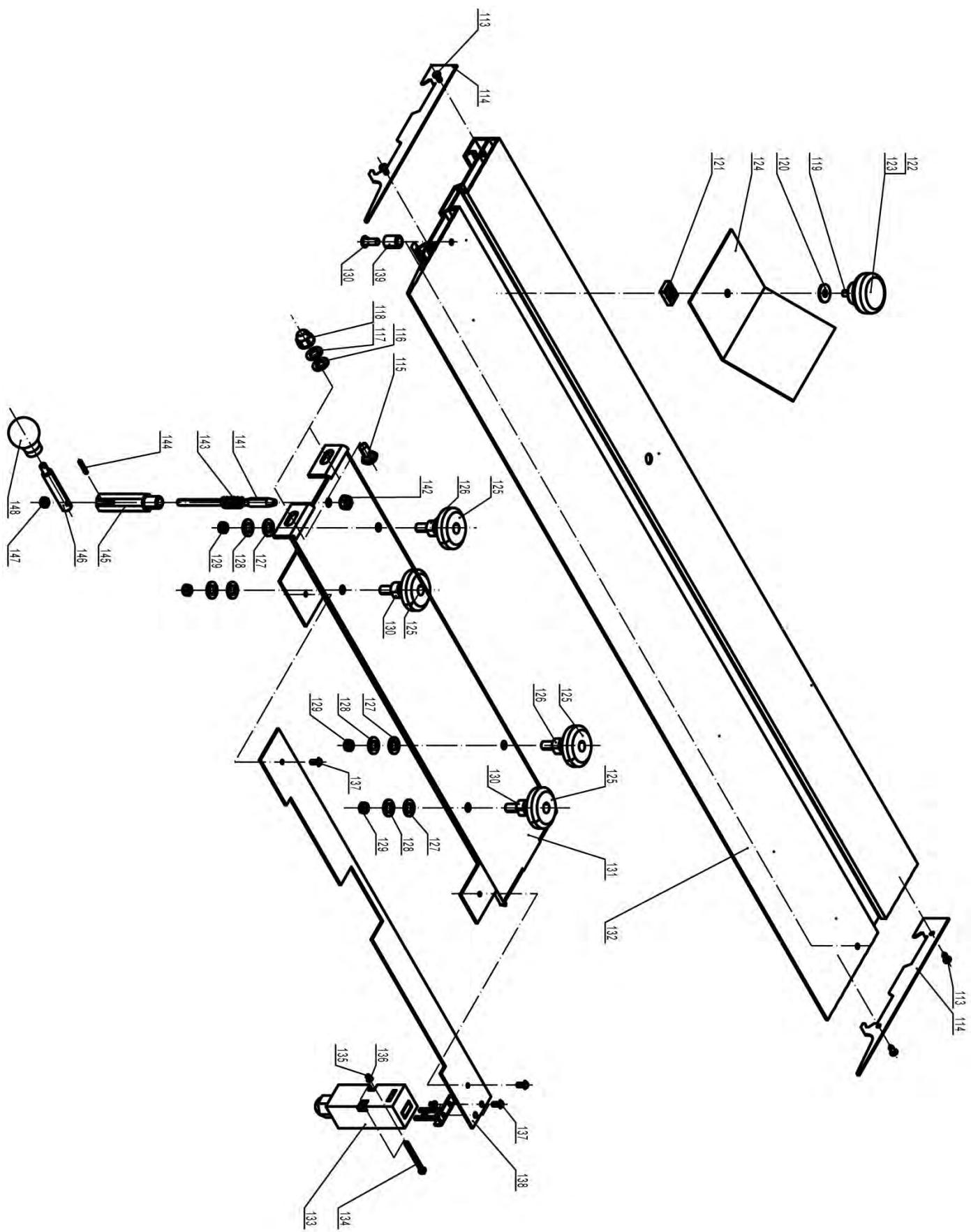
12. Parts Diagrams



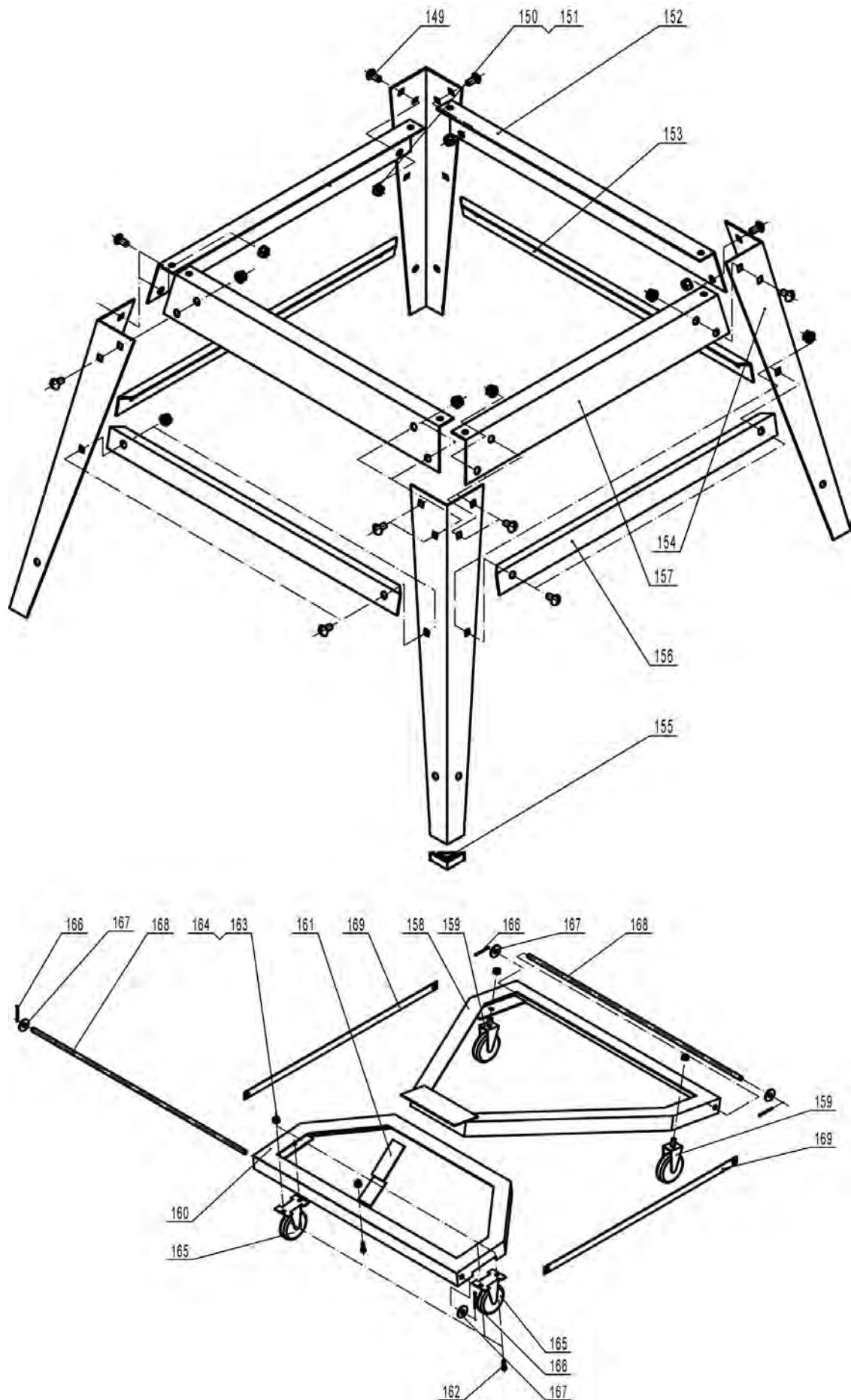
12. Parts Diagrams - cont.



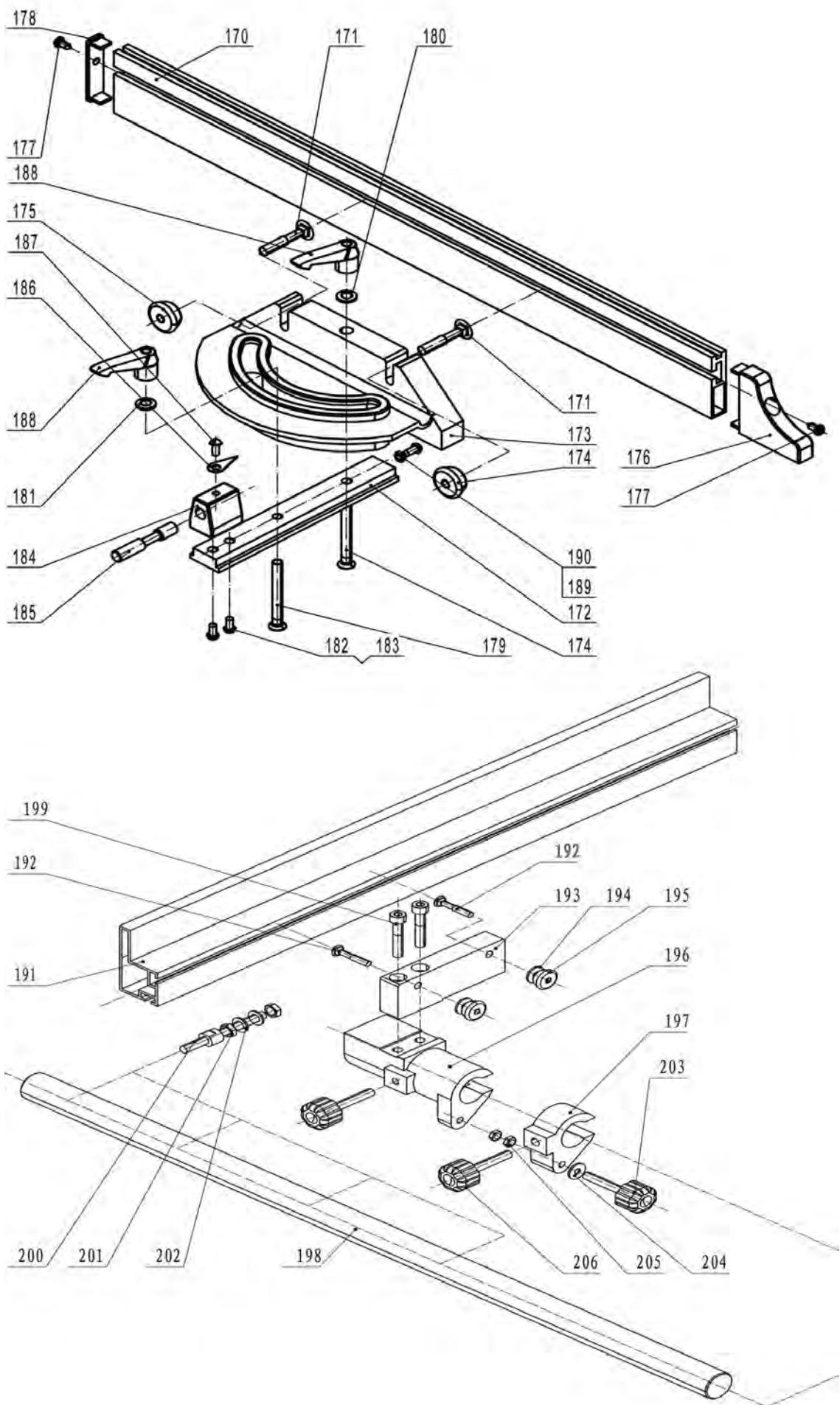
12. Parts Diagrams - cont.



12. Parts Diagrams - cont.



12. Parts Diagrams - cont.



13. Parts List

Ref No.	Description	Ref No.	Description
1	Blade guard assembly	57	Tube
2	Dust collecting tube	58	Quill tube I
3	Blade	59	Screw M8X20
4	Mount adjusting base	60	square nut
5	Mount base	61	Flat washer
6	Lock handle assembly	62	Spring washer 8
7	Flat washer 8	63	Angle rotating shaft
8	Rotating support base	64	Tube circlip
9	Mount base	65	Dust collecting tube
10	Shaft	66	Motor
11	Rubber washer	67	Motor pulley
12	Adjusting washer	68	Washer
13	Bearing 80103C	69	Big washer
14	Retaining ring	70	Hex bolt
15	Big quill tube	71	Motor mounting plate
16	Shaft pulley	72	Gear rod
17	Quill tube	73	Circlip 12mm
18	Bearing 80301C	74	Circlip 22mm
19	Adjusting wheel	75	Bearing
20	Hex. Nut M8	76	Bearing base
21	Big washer	77	Screw
22	Flat washer 8	78	Big handwheel
23	Multi-belt	79	Wheel handle
24	Hex. Bolt M6X20	80	Screw
25	Flat washer 6	81	Screw
26	Flat washer 6	82	Rod
27	Angle shaft	83	Hex socket head screw M6X10
28	Hex. Nut M8	84	Mount, riving knife
29	Flat washer 8	85	Guide plate assembly
30	Tube	86	Guide plate
31	Washer	87	Direction washer
32	Retaining ring	88	Pressure plate
33	Screw shaft	89	Flat washer 10
34	Screw tube	90	Hex nut M10
35	Tube	91	Spring washer 10
36	Position screw	92	Main table
37	Washer	93	Table insert
38	Dust collector	94	Screw M5X8
39	Hex. Bolt	95	Table, right side
40	Hex. Nut M10X1.5	96	Hex. Bolt M8X12
41	Flat washer	97	Flat washer 8
42	Blade collar	98	Hex. Nut M5
43	Circlip 32mm	99	Flat washer 5
44	Washer	100	Support bracket
45	Screw M6X20	101	Semicircular bracket
46	Hex. Nut M6	102	Pan head screw M5X10
47	Flat washer 6	103	Staff guage
48	Hex. Nut M8	104	Pan head screw M6X16
49	Flat washer 8	105	Hex socket head screw M8X16
50	Tube	106	Rear rail
51	Quill tube II	107	Screw M4X8
52	Position bolt	108	Flat washer 4
53	Hex. Nut M6	109	Front panel
54	Lock nut M6	110	Cabinet Assembly
55	Screw M6X35	111	Switch
56	Pressure plate	112	Screw M4X60

13. Parts List - cont.

Ref No.	Description	Ref No.	Description
113	Tapping screw ST4.2X9.5	169	Position bracket
114	Carrier cover	170	Fence
115	Carriage bolt M8X16	171	Carriage bolt M6X30
116	Flat washer 8	172	T bracket
117	Spring washer 8	173	Mitre gauge
118	Pan head nut M8	174	Countersunk head screw M6X70
119	Hex bolt M6X16	175	Nut
120	Flat washer 6	176	Right end cap
121	square nut	177	Tapping screw ST4.2X9.5
122	Cover, fence knob	178	Left end cap
123	Body, fence knob	179	Countersunk head screw M6X50
124	Bracket	180	Flat washer 6
125	Tube	181	Flat washer 6
126	Eccentric adjuster	182	Flat washer 4
127	Flat washer 8	183	Screw M4X12
128	Spring washer 8	184	Indicator base
129	Hex. Nut M8	185	Roll pin
130	Support, sliding wheel	186	Indicator
131	Base, sliding table	187	Screw M4X8
132	Sliding table	188	Adjusting handle
133	Safety switch	189	Hex. Nut M4
134	Hex. Bolt M4X30	190	Screw M4X16
135	Hex. Nut M4	191	Fence, "L" shape
136	Flat washer 4	192	Carriage bolt M6X35
137	Pan head screw M4X10	193	Fence support brace
138	Shield bracket	194	Flat Washer 6
139	Bracket	195	Nut
140	Countersunk head screw M6X16	196	Fence base
141	Position pin	197	Micro-adjusting base
142	Hex. Nut M12X1.5	198	Front rail
143	Spring	199	Hex socket head screw M8X45
144	Pin roll 3x16	200	Support shaft
145	Position collar	201	Hex. Nut M8
146	shaft	202	Flat washer 8
147	Hex. Nut M6	203	Micro-adjusting knob
148	Handle knob	204	Flat washer 6
149	Carriage bolt M8X16	205	Hex. Nut M6
150	Flat washer 8	206	Lock handle
151	Hex. Nut 8		
152	Front brace		
153	Shelf beam		
154	Support leg		
155	Rubber foot		
156	Side beam		
157	Side brace		
158	Push bracket		
159	Rotate Wheel		
160	Support bracket		
161	Spring bracket		
162	Hex. Bolt M8X20		
163	Flat washer 8		
164	Hex. Nut M8		
165	Wheel		
166	Roll pin 3x35		
167	Flat washer 10		
168	Shaft		

EU Declaration of Conformity

Cert No: EU / TS200C / 1

RECORD POWER LIMITED,

Unit B, Ireland Industrial Est.

Adelphi Way, Staveley, Chesterfield S43 3LS

declares that the machinery described:-

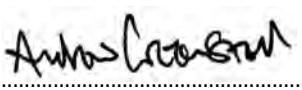
1. Type: **Table Saw**
2. Model No: **TS200C**
3. Serial No

Conforms with the following directives:-

MACHINERY DIRECTIVE	2006/42/EC
LOW VOLTAGE DIRECTIVE	2006/95/EC
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE	2004/108/EC EN 55014-1:2006 EN 61000-3-2:2006 EN 61000-3-3:1995+A1+A2 EN 55014-2:1997+A1

and conforms to the machinery example for which the
EC Type-Examination Certificate No. **BM50170597, AN50170595, AE50103166**
has been issued by **TUV Rheinland Product Safety GmbH**,
at: Am Grauen Stein, D-51105. Cologne, Germany

and complies with the relevant essential health and safety requirements.

Signed..........Dated: **01/02/2010**

Andrew Greensted

Managing Director

Notes

Notes

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Woodworking Machinery



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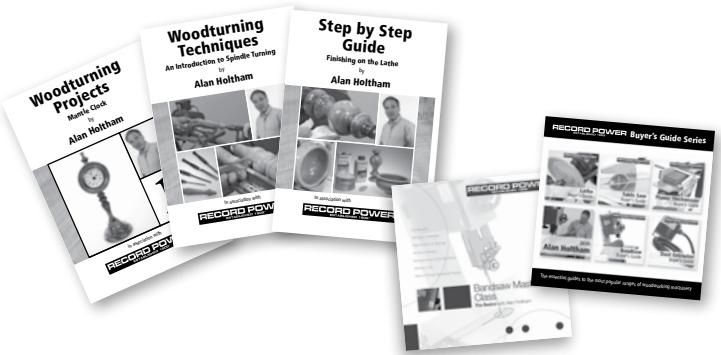
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